SML004

<h1 style="text-align:center">How to use SensiMedia
for
Salmonella Detection</h1>

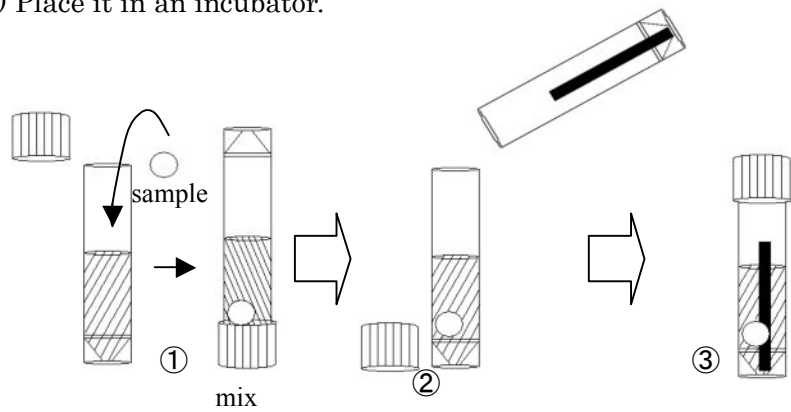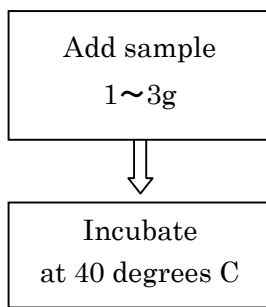<div style="text-align:right">MicroBio Corporation</div>

1. General Description

This SensiMedia is designed to detect the presence of *Salmonella* isolated from other microorganisms such as *Citrobacter*, *E coli*, *Enterobacter* and *Klebsiella*.

2. Detection Procedure

<u>Add sample</u>

1) Open a cap of SensiMedia and add 1 to 3g of sample and mix.
2) Open a cap and put sensor in and close a cap.
3) Place it in an incubator.

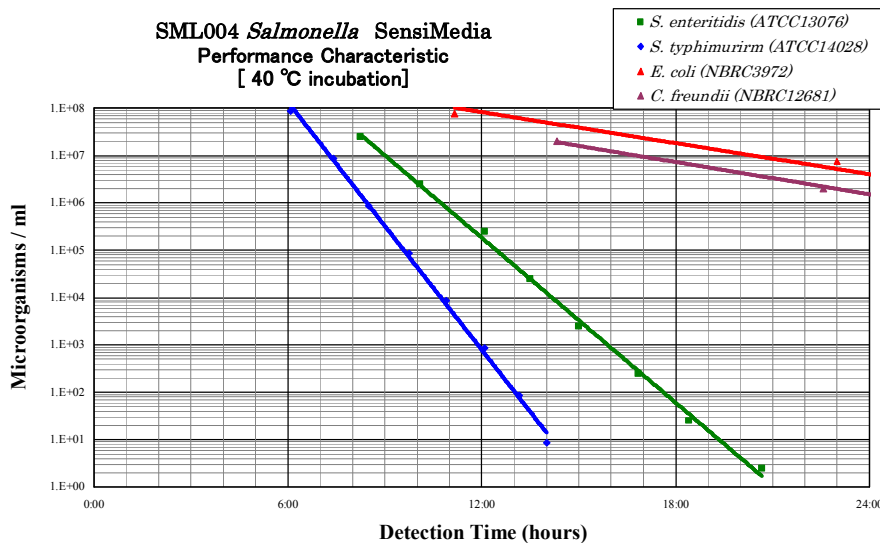| Add sample 1〜3g |
| :---: |
| ⬇ |
| Incubate at 40 degrees C |

sample

① mix   ②   ③

<u>Incubate Temperature</u>

Incubate the sample added SensiMedia at 40 degrees C.

3. Detection Criteria

The performance characteristic of liquid medium is shown in graph below. Refer to it and set up a protocol for the test. If the color of CO_2 sensor turns into yellowish transparent, *Salmonella* is detected. If the color of sensor remains in dark blue, detection is negative.

SML004 *Salmonella* SensiMedia
Performance Characteristic
[40 ℃ incubation]

- ■ *S. enteritidis (ATCC13076)*
- ◆ *S. typhimurirm (ATCC14028)*
- ▲ *E. coli (NBRC3972)*
- ▲ *C. freundii (NBRC12681)*

Microorganisms / ml

Detection Time (hours)

Note) Color of broth

When the sensor tuned into yellow, *salmonella* is detected. The color of broth becomes orange to red if salmonella is predominant.

S.typhimurium	*S.enteritidis*	*E.coli*	*Citrobacter*
ATCC 14028	ATCC 13076	NBRC 3972	NBRC 12681